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EQUIPMENT DESCRIPTION

A/N 500852 (Change of condition, p/n G2237, a/n 493466):
LITHOGRAPHIC PRINTING SYSTEM NO. 1 CONSISTING OF:

1. LITHOGRAPHIC PRESS, GOSS, MODEL C-150 MAGNUM CLASS, SERIAL NO. C15-5006, 4-COLOR, 35-INCH WEB WIDTH, 100 HP TOTAL.
2. OVEN, TEC MODEL NO. 1-VC-135-40, SERIAL NO. 102125, NATURAL GAS FIRED, 7'-3" W. X 11'-3" L. X 4'-0" H., WITH A MAXON 1.6 MM BTU PER HOUR LOW NOX BURNER, A 5 HP COMBUSTION AIR BLOWER, A 40 HP CIRCULATION FAN, AND A 5 HP EXHAUST FAN.
3. CHILL ROLL UNIT.
4. ADHESIVE APPLICATOR.

A/N 500853 (Change of condition, p/n G2238, a/n 493467):
LITHOGRAPHIC PRINTING SYSTEM NO. 2 CONSISTING OF:

1. LITHOGRAPHIC PRESS, GOSS, MODEL C-150 MAGNUM CLASS, SERIAL NO. C15-5009, 4-COLOR, 35-INCH WEB WIDTH, 100 HP TOTAL.
2. OVEN, TEC MODEL NO. 1-VC-135-40, SERIAL NO. 102137, NATURAL GAS FIRED, 7'-3" W. X 11'-3" L. X 4'-0" H., WITH A MAXON 1.6 MM BTU PER HOUR LOW NOX BURNER, A 5 HP COMBUSTION AIR BLOWER, A 40 HP CIRCULATION FAN, AND A 5 HP EXHAUST FAN.
3. CHILL ROLL UNIT.
4. ADHESIVE APPLICATOR.

A/N 500854 (Change of condition, a/n 493460):
LITHOGRAPHIC PRINTING SYSTEM NO. 707, CONSISTING OF:

1. LITHOGRAPHIC PRINTING PRESS, GOSS, MODEL NO. C-700, WEB-FED, 4 X 4 COLOR, 66" 35" WIDTH, 400 HP TOTAL.
2. OVEN, MEGTEC, MODEL NO. ICP39168 COANDA PLUS THERMO-FOIL ATLAS, 34'-9" L. X 8'-0" W. X 4'-6" H., WITH TWO 3,230,000 BTU PER HOUR NATURAL GAS FIRED MAXON EB3MRV LOW NOX BURNERS, WITH TWO 10 HP COMBUSTION AIR BLOWERS, TWO 100-HP RECIRCULATION FANS, AND ONE 10-HP EXHAUST FAN.
3. CHILL ROLL UNIT.

APPLICATION PROCESSING AND CALCULATION

A/N 500855 (Change of condition, a/n 493460):

MODIFICATION TO AIR POLLUTION CONTROL SYSTEM NO.1 (PERMIT NO. F68629),
CONSISTING OF:

1. THERMAL OXIDIZER, REGENERATIVE TYPE, ADVANTAGE ENERGY GROUP, MODEL PREMIER-30, 63'-0" L. X 24'-0" W. X 12'-0" H., 30,000 SCFM CAPACITY, WITH AN 8.6 MMBTU/HR BURNER, A 4.5 MMBTU/HR GAS INJECTION SYSTEM, TWO CERAMIC BEDS (19'-0" L. X 10'-0" W. X 4'-0" H. EACH), A 20 HP COMBUSTION BLOWER AND A COIL MEDIA HEAT EXCHANGER.
2. EXHAUST SYSTEM WITH A 34'-0" HIGH STACK AND ONE 200 HP FAN VENTING ~~TEN EIGHT~~ LITHOGRAPHIC PRINTING OVENS.

BY THE ADDITION OF:

3. THERMAL OXIDIZER, REGENERATIVE TYPE, LANGBEIN & ENGELBRACHT AMERICA, MODEL NO. TR1595C, SERIAL NO. 1062-06, 16'-4" W. X 40'-6" L. X 17'-9" H., 15,000 SCFM CAPACITY, WITH TWO 8'-8" W. X 8'-8" L. X 5'-0" H. CERAMIC BEDS, ONE 3,000,000 MAXON KINEMAX 3-KM BURNER, AND ONE 1.2 HP COMBUSTION BLOWER.
4. EXHAUST SYSTEM WITH A 30'-0" H. EXHAUST STACK AND ONE 150 HP FAN VENTING TEN LITHOGRAPHIC PRINTING OVENS.

A/N 500848:

TITLE V PERMIT REVISION

CONDITIONS

A/N 500852:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE OVEN IS VENTED TO AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]
4. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE 1 WITH EFFECTIVE DATE OF MAY 3, 2002 OR EARLIER, EXCEPT ETHYLENE GLYCOL MONOBUTYL ETHER, ETHYLENE GLYCOL, AND NAPHTHALENE.
[RULE 1401]

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5. THE COMPOSITE VAPOR PRESSURE OF THE VOC IN THE BLANKET WASH AND ROLLER WASHES SHALL NOT EXCEED 6 mm Hg AT 68 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT]
6. THE VOC CONTENT OF THE FOUNTAIN SOLUTION USED IN THIS EQUIPMENT SHALL NOT EXCEED 8 % BY VOLUME, AS APPLIED, INCLUDING WATER AND EXEMPT SOLVENTS.
[RULE 1303(a)(1)-BACT]
7. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 30 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 15 CONSECUTIVE MINUTES.
[RULE 1303(a)(1)-BACT]
8. IN ADDITION TO RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT FOR THE FOLLOWING:
 - A. DENSITY OF INKS, IN POUNDS PER GALLON.
 - B. PERCENTAGE BY WEIGHT OF LITHOGRAPHIC OILS IN EACH INK.
 - C. INK ABSORPTION FACTOR AS SPECIFIED BY CURRENT SCAQMD GUIDELINES.
 - D. VOC CONTENT OF FOUNTAIN SOLUTION, WASH MATERIALS, AND ANY OTHER MATERIALS, IN POUNDS PER GALLON, AS APPLIED, INCLUDING WATER AND PERCENT VOC BY VOLUME.
 - E. CALENDAR MONTHLY VOC EMISSIONS IN POUNDS.
 - F. OTHER DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS SPECIFIED IN THIS PERMIT.

ALL RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

[RULE 109, 1303(b)(2)-OFFSET]

9. THE TOTAL QUANTITY OF NATURAL GAS USED IN THE EQUIPMENT PERMITTED UNDER APPLICATION NUMBERS 500852, 500853 AND 500854 SHALL NOT EXCEED 4,154,250 CUBIC FEET IN ANY ONE CALENDAR MONTH.
[RULE 1303(b)(2)-OFFSET]

~~THE OPERATOR SHALL NOT OPERATE THE PRINTING PRESSES UNDER AQMD APPLICATION NOS. 493466 AND 493467 WHEN THE PRINTING PRESS UNDER APPLICATION NO. 493460 IS IN OPERATION.~~

~~[RULE 1303(b)(2)-OFFSET]~~

10. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL FLOW METER TO ACCURATELY INDICATE THE FUEL USAGE OF THE EQUIPMENT.
[RULE 1303(b)(2)-OFFSET]

APPLICATION PROCESSING AND CALCULATION

11. THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO DEMONSTRATE COMPLIANCE WITH THE NATURAL GAS FUEL USAGE LIMIT OF CONDITION NO. 9. SUCH RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE. [RULE 1303(b)(2)-OFFSET]

EMISSIONS AND REQUIREMENTS:

- 12.40. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 109

VOC: RULE 1130, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

NOX: 30 PPMV, RULE 1303(A)(1)-BACT

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

A/N 500853:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE OVEN IS VENTED TO AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]
4. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE 1 WITH EFFECTIVE DATE OF MAY 3, 2002 OR EARLIER, EXCEPT ETHYLENE GLYCOL MONOBUTYL ETHER, ETHYLENE GLYCOL, AND NAPHTHALENE.
[RULE 1401]
5. THE COMPOSITE VAPOR PRESSURE OF THE VOC IN THE BLANKET WASH AND ROLLER WASHES SHALL NOT EXCEED 6 mm Hg AT 68 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT]
6. THE VOC CONTENT OF THE FOUNTAIN SOLUTION USED IN THIS EQUIPMENT SHALL NOT EXCEED 8 % BY VOLUME, AS APPLIED, INCLUDING WATER AND EXEMPT SOLVENTS.
[RULE 1303(a)(1)-BACT]

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7. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 30 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 15 CONSECUTIVE MINUTES.
[RULE 1303(a)(1)-BACT]
8. IN ADDITION TO RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT FOR THE FOLLOWING:
- A. DENSITY OF INKS, IN POUNDS PER GALLON.
 - B. PERCENTAGE BY WEIGHT OF LITHOGRAPHIC OILS IN EACH INK.
 - C. INK ABSORPTION FACTOR AS SPECIFIED BY CURRENT SCAQMD GUIDELINES.
 - D. VOC CONTENT OF FOUNTAIN SOLUTION, WASH MATERIALS, AND ANY OTHER MATERIALS, IN POUNDS PER GALLON, AS APPLIED, INCLUDING WATER AND PERCENT VOC BY VOLUME.
 - E. CALENDAR MONTHLY VOC EMISSIONS IN POUNDS.
 - F. OTHER DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS SPECIFIED IN THIS PERMIT.

ALL RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

[RULE 109, 1303(b)(2)-OFFSET]

9. THE TOTAL QUANTITY OF NATURAL GAS USED IN THE EQUIPMENT PERMITTED UNDER APPLICATION NUMBERS 500852, 500853 AND 500854 SHALL NOT EXCEED 4,154,250 CUBIC FEET IN ANY ONE CALENDAR MONTH.
[RULE 1303(b)(2)-OFFSET]

~~THE OPERATOR SHALL NOT OPERATE THE PRINTING PRESSES UNDER AQMD APPLICATION NOS. 493466 AND 493467 WHEN THE PRINTING PRESS UNDER APPLICATION NO. 493460 IS IN OPERATION.~~

~~[RULE 1303(b)(2)-OFFSET]~~

10. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL FLOW METER TO ACCURATELY INDICATE THE FUEL USAGE OF THE EQUIPMENT.
[RULE 1303(b)(2)-OFFSET]

11. THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO DEMONSTRATE COMPLIANCE WITH THE NATURAL GAS FUEL USAGE LIMIT OF CONDITION NO. 9. SUCH RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
[RULE 1303(b)(2)-OFFSET]

EMISSIONS AND REQUIREMENTS:

- ~~12.40.~~ THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 109

VOC: RULE 1130, SEE APPENDIX B FOR EMISSION LIMITS

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VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

NOX: 30 PPMV, RULE 1303(A)(1)-BACT

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

A/N 500854:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE OVEN IS VENTED TO AN AIR POLLUTION CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]
4. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS DISCHARGED TO THE ATMOSPHERE FROM THIS EQUIPMENT SHALL NOT EXCEED 900 POUNDS IN ANY CALENDAR MONTH. THE VOC EMISSIONS SHALL BE CALCULATED USING THE REQUIRED CONTROL EFFICIENCY SPECIFIED IN THE PERMIT FOR THE APC SYSTEM.
[RULE 212(c)(2)]
5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE 1 WITH EFFECTIVE DATE OF MARCH 4, 2005 OR EARLIER, EXCEPT ETHYLENE GLYCOL MONOBUTYL ETHER (CAS NO. 111-76-2), ETHYLENE GLYCOL (CAS NO. 107-21-1), AND NAPHTHALENE (CAS NO. 91-20-3).
[RULE 1401]
6. THE COMPOSITE VAPOR PRESSURE OF THE VOC IN THE BLANKET WASH AND ROLLER WASHES SHALL NOT EXCEED 6 MM HG AT 68 DEGREES FAHRENHEIT.
[RULE 1303(a)(1)-BACT]
7. THE VOC CONTENT OF THE FOUNTAIN SOLUTION USED IN THIS EQUIPMENT SHALL NOT EXCEED 8 % BY VOLUME, AS APPLIED, INCLUDING WATER AND EXEMPT SOLVENTS.
[RULE 1303(a)(1)-BACT]
8. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 30 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 15 CONSECUTIVE MINUTES.
[RULE 1303(a)(1)-BACT]
9. IN ADDITION TO RECORDKEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT FOR THE FOLLOWING:
 - A. DENSITY OF INKS, IN POUNDS PER GALLON.

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- B. PERCENTAGE BY WEIGHT OF LITHOGRAPHIC OILS IN EACH INK.
- C. INK ABSORPTION FACTOR AS SPECIFIED BY CURRENT SCAQMD GUIDELINES.
- D. VOC CONTENT OF FOUNTAIN SOLUTION, WASH MATERIALS, AND ANY OTHER MATERIALS, IN POUNDS PER GALLON, AS APPLIED, INCLUDING WATER AND PERCENT VOC BY VOLUME.
- E. CALENDAR MONTHLY VOC EMISSIONS IN POUNDS.
- F. OTHER DATA AS REQUIRED TO VERIFY COMPLIANCE WITH THE CONDITIONS SPECIFIED IN THIS PERMIT.

ALL RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

[RULE 109, 1303(b)(2)-OFFSET]

10. THE TOTAL QUANTITY OF NATURAL GAS USED IN THE EQUIPMENT PERMITTED UNDER APPLICATION NUMBERS 500852, 500853 AND 500854 SHALL NOT EXCEED 4,154,250 CUBIC FEET IN ANY ONE CALENDAR MONTH.

[RULE 1303(b)(2)-OFFSET]

~~THE OPERATOR SHALL NOT OPERATE THE PRINTING PRESSES UNDER AQMD APPLICATION NOS. 493466 AND 493467 WHEN THE PRINTING PRESS UNDER APPLICATION NO. 493460 IS IN OPERATION.~~

[RULE 1303(b)(2)-OFFSET]

11. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL FLOW METER TO ACCURATELY INDICATE THE FUEL USAGE OF THE EQUIPMENT.

[RULE 1303(b)(2)-OFFSET]

12. THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO DEMONSTRATE COMPLIANCE WITH THE NATURAL GAS FUEL USAGE LIMIT OF CONDITION NO. 10. SUCH RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

[RULE 1303(b)(2)-OFFSET]

EMISSIONS AND REQUIREMENTS:

- ~~13.44.~~ THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 109

VOC: RULE 1130, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

CO: 2000 PPMV, RULE 407

NOx: 30 PPMV, RULE 1303(a)(1)-BACT

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

APPLICATION PROCESSING AND CALCULATION

A/N 500855:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATOR SHALL OPERATE AND MAINTAIN THE THERMAL OXIDIZERS ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE COMBUSTION CHAMBER TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,550 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

THE OPERATOR SHALL OPERATE AND MAINTAIN A TEMPERATURE MEASURING AND RECORDING SYSTEM TO CONTINUOUSLY MEASURE AND RECORD THE COMBUSTION CHAMBER TEMPERATURE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN 1% OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A COMBUSTION CHAMBER TEMPERATURE OF LESS THAN 1,550 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION OF THE EQUIPMENT IT SERVES. THE OPERATOR SHALL REVIEW THE RECORDS OF THE COMBUSTION CHAMBER TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

WHENEVER A DEVIATION OCCURS, THE OPERATOR SHALL INSPECT THIS EQUIPMENT TO IDENTIFY THE CAUSE OF SUCH A DEVIATION, TAKE IMMEDIATE CORRECTIVE ACTION TO MAINTAIN THE COMBUSTION CHAMBER TEMPERATURE AT OR ABOVE 1,550 DEGREES FAHRENHEIT, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT. THE REPORT SHALL INCLUDE THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

APPLICATION PROCESSING AND CALCULATION

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)-PERIODIC MONITORING, 40CFR PART 64]

4. THE TEMPERATURE INDICATING AND RECORDING SYSTEM SHALL BE IN OPERATION WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
5. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT TO ACHIEVE DESTRUCTION EFFICIENCY OF AT LEAST 99 % BY WEIGHT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT TO ACHIEVE AN OVERALL CONTROL EFFICIENCY OF AT LEAST 98.5 %.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
7. BOTH THERMAL OXIDIZERS SHALL BE IN FULL OPERATION WHENEVER THE BASIC EQUIPMENT THEY SERVE IS IN OPERATION.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]
8. THE OXIDES OF NITROGEN (NO_x) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 78 PPMV, CALCULATED AS NO₂ ON A DRY BASIS AT 3 % OXYGEN AVERAGED OVER 60 CONSECUTIVE MINUTES.
[RULE 1303(b)(2)-OFFSET]
9. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. THE SOURCE TESTS SHALL BE CONDUCTED NO LATER THAN 180 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
 - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 DAYS AFTER THE INITIAL START-UP OF THIS EQUIPMENT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT. THE TEST PROTOCOL SHALL BE APPROVED IN WRITING BY THE DISTRICT BEFORE THE TEST COMMENCES. THE TEST PROTOCOL SHALL INCLUDE THE COMPLETED DISTRICT FORMS ST-1 AND ST-2 SPECIFYING THE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST, THE IDENTITY OF THE TESTING LABORATORY, A STATEMENT FROM THE TESTING LABORATORY CERTIFYING IT MEETS THE CRITERIA IN DISTRICT RULE 304(k), AND A DESCRIPTION OF THE SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
 - C. THE SOURCE TESTS SHALL CONSIST OF, BUT MAY NOT BE LIMITED TO, TESTING AT THE INLET AND THE EXHAUST OF THE AFTERBURNERS FOR:

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- (1) VOLATILE ORGANIC COMPOUND (VOC) IN PPMV AND LBS/HR
 - (2) OXIDES OF NITROGEN (AFTERBURNERS EXHAUST ONLY)
 - (3) CARBON MONOXIDE (AFTERBURNERS EXHAUST ONLY)
 - (4) VOC DESTRUCTION EFFICIENCY
 - (5) VOC COLLECTION EFFICIENCY
 - (6) USAGE OF ALL VOC-CONTAINING MATERIALS DURING THE TEST
 - (7) OXYGEN CONTENT
 - (8) MOISTURE CONTENT
 - (9) FLOW RATE
 - (10) TEMPERATURE
- D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT AT LEAST 14 DAYS PRIOR TO SOURCE TESTING DATE SO THAT AN OBSERVER FROM THE DISTRICT MAY BE PRESENT.
- E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 45 DAYS AFTER THE SOURCE TESTING DATE. THE SOURCE TEST REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO ALL TESTING DATA REQUIRED BY THIS CONDITION.
- F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANTS TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
- G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

PERIODIC MONITORING:

10. THE OPERATOR SHALL CONDUCT SOURCE TEST(S) IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- A. THE TEST SHALL BE CONDUCTED AT LEAST ONCE DURING THE LIFE OF THE PERMIT.
 - B. THE TEST SHALL BE CONDUCTED NO LATER THAN JULY 31, 2011 UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.
 - C. THE TEST SHALL BE CONDUCTED TO DETERMINE THE VOC EMISSIONS USING AN APPROVED DISTRICT METHOD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE PERMIT CONDITION(S), RULES AND REGULATIONS.
 - D. THE SOURCE TEST SHALL BE CONDUCTED WHILE THE OXIDIZER IS OPERATING AT A TEMPERATURE OF NOT LESS THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT. IF THE OPERATING TEMPERATURE DURING THE SOURCE TEST IS GREATER THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT, THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT MAY BE INCREASED TO REFLECT THE OPERATING TEMPERATURE DURING THE SOURCE TEST.

APPLICATION PROCESSING AND CALCULATION

- E. THE OPERATOR SHALL COMPLY WITH ADMINISTRATIVE CONDITION NOS. 8, 9, AND 10 OF SECTION E OF THIS FACILITY PERMIT.
- F. THE OPERATOR SHALL SUBMIT TWO COMPLETE COPIES OF THE SOURCE TEST REPORT SPECIFIED IN CONDITION NO. 9 OF SECTION E OF THIS FACILITY PERMIT TO THE DISTRICT ENGINEERING AND COMPLIANCE DIVISION. THE ENGINEERING COPY OF THE REPORT SHALL BE SENT TO: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, COATING, PRINTING AND AEROSPACE OPERATIONS, ATTN: AIR QUALITY AND COMPLIANCE SUPERVISOR, 21865 COPLEY DRIVE, DIAMOND BAR, CA 91765. THE COMPLIANCE COPY OF THE REPORT SHALL BE SENT TO: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765.
[RULE 3004 (a)(4)]

EMISSIONS AND REQUIREMENTS:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407

PM: 0.1 GR/SCF, RULE 409

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

NOX: 78 PPMV, RULE 1303(B)(2)-OFFSET

BACKGROUND

The above applications were submitted by Quebecor World Great Western Publishing (Quebecor) to make changes to the exiting permits for three lithographic heat set printing presses and a regenerative thermal oxidizer. Applications were submitted for the following reasons:

A/N 500852, 500853 & 500854:

Remove the following condition:

THE OPERATOR SHALL NOT OPERATE THE PRINTING PRESSES UNDER AQMD APPLICATION NOS. 493466 (PRINTING SYSTEM NO.1) AND 493467 (PRINTING SYSTEM NO.2) WHEN THE PRINTING PRESS UNDER APPLICATION NO. 493460 (PRINTING SYSTEM NO.707) IS IN OPERATION.

Add the following conditions:

THE TOTAL QUANTITY OF NATURAL GAS USED IN THE EQUIPMENT PERMITTED UNDER APPLICATION NUMBERS 500852 (PRINTING SYSTEM NO.1), 500853 (PRINTING SYSTEM NO.2) AND 500854 (PRINTING SYSTEM NO.707) SHALL NOT EXCEED 4,154,250 CUBIC FEET IN ANY ONE CALENDAR MONTH.

THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL FLOW METER TO ACCURATELY INDICATE THE FUEL USAGE OF THE EQUIPMENT.

APPLICATION PROCESSING AND CALCULATION

THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO DEMONSTRATE COMPLIANCE WITH THE NATURAL GAS FUEL USAGE LIMIT OF CONDITION NO. "X". SUCH RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

Printing press systems No. 1 and 2 were originally issued permits to operate on 5/26/2004, while printing system No. 707 was originally issued a permit to construct on 8/7/2007. Current permit conditions do not allow for the operation of systems 1 and 2 when system 707 is in operation. The change of conditions is requested to allow Quebecor to operate any of these three presses simultaneously. The natural gas usage limit is necessary to keep particulate matter (PM10) emissions less than 0.5 lb/day. Individual non-resettable gas meters have been installed in the natural gas supply lines to the ovens.

The equipment description of the oven under a/n 500854 will also be changed to reflect the following:

OVEN, MEGTEC, MODEL NO. ICP39168 COANDA PLUS ~~THERMO-FOIL ATLAS~~, 34'-9" L. X 8'-0" W. X 4'-6" H., WITH TWO 3,230,000 BTU PER HOUR NATURAL GAS FIRED MAXON EB3MRV LOW NOX BURNERS, WITH TWO 10 HP COMBUSTION AIR BLOWERS, TWO 100-HP RECIRCULATION FANS, AND ONE 10-HP EXHAUST FAN.

A/N 500855:

Modify the equipment description of the exhaust system of the regenerative thermal oxidizer as follows:

EXHAUST SYSTEM WITH A 34'-0" HIGH STACK AND ONE 200 HP FAN VENTING TEN EIGHT ~~TEN~~ LITHOGRAPHIC PRINTING OVENS.

No citizen nuisance complaints have been filed on this facility. On 9/17/08 a Notice of Violation was issued to the facility due to: (1) Operating the above three heat set lithographic presses simultaneously contrary to Title V Permit conditions; (2) Operating the oven associated with system No. 707 without an active permit (permit description did not match the oven operated); and (3) Not conducting a source test on the two thermal oxidizers within 180 days after the initial start-up. On 1/30/09 a Notice of Violation was issued to the facility for the same first two offenses as the previous violation notice.

Quebecor is a Title V facility. A Title V renewal permit was issued to this facility on 7/24/07. Quebecor has proposed to revise their Title V renewal permit with a/n 500848 by changing the conditions of three lithographic heat set printing presses and modifying a regenerative thermal oxidizer. The permit revision is considered as a "minor permit revision" to the Title V renewal permit, as described in Regulation XXX evaluation.

PROCESS DESCRIPTION

Quebecor is a large lithographic printing business that prints various inserts, publications, magazines and books. The company is operating ten lithographic printing presses. The inks are all oil based which are heat set and the presses are all equipped with natural gas fired dryers. The drying ovens are vented to two regenerative thermal oxidizers (RTO). The heatset inks have a retention factor of 20% so 80% of the VOC emissions from the inks will be vented from the dryers to the RTO. Quebecor operates under facility-wide VOC and NOx emission caps of 7,800 lb/month and 667 lb/month, respectively. The facility operates 24 hrs/day, 7 days/week and 52 weeks/year.

EMISSION ESTIMATES

In order to avoid a particulate matter (PM10) emission increase with the new conditions that allow simultaneous operation of all three presses, a monthly natural gas usage limit was established. The limit was determined by calculating the gas usage from the press/oven of a/n 500854 that would result in a negligible emission increase and then adding the gas usage to the gas usage from the presses/ovens of a/n 500852 and 500853 based upon the maximum heating value of the oven burners. The limit was determined as follows:

PM10 emission factor: 7.5 lb/mm ft³

Heating value: 1050 Btu/ft³

Proposed Daily Natural Gas Usage From A/n 500854:

$$0.0653 \text{ mm ft}^3/\text{day} \times 7.5 \text{ lb/mm ft}^3 = 0.49 \text{ lb/day}$$

Daily Natural Gas Usage From A/n 500852:

$$1,600,000 \text{ Btu/hr} \times 24 \text{ hr/day} \times \text{ft}^3/1050 \text{ Btu} = 36,571 \text{ ft}^3/\text{day}$$

Daily Natural Gas Usage From A/n 500853:

$$1,600,000 \text{ Btu/hr} \times 24 \text{ hr/day} \times \text{ft}^3/1050 \text{ Btu} = 36,571 \text{ ft}^3/\text{day}$$

Total Daily Natural Gas Usage From A/n 500852, 500853 and 500854:

$$65,333 \text{ ft}^3/\text{day} + 36,571 \text{ ft}^3/\text{day} + 36,571 \text{ ft}^3/\text{day} = 138,475 \text{ ft}^3/\text{day}$$

Total Monthly Natural Gas Usage From A/n 500852, 500853 and 500854:

$$138,475 \text{ ft}^3/\text{day} \times 30 \text{ day/month} = 4,154,250 \text{ ft}^3/\text{month}$$

Emissions from the ovens of a/n 500852, 500853 and 500855 remain unchanged from previous determined and emissions from a/n 500854 are determined using the daily gas usage of 65,333 ft³/day. They are slightly less than previous calculated due to the lower fuel usage limit.

APPLICATION PROCESSING AND CALCULATION

Emission Factors (N.G. Combustion)

ROG emission factor: 7.0 lb/mm ft^3

NOx emission factor: 38.5 lb/mm ft^3

SOx emission factor: 0.6 lb/mm ft^3

CO emission factor: 78.8 lb/mm ft^3

PM10 emission factor: 7.5 lb/mm ft^3

A/N 500852 and 500853 (emissions per each app.):

Hourly ROG Emissions = 0.0107 lb/hr

Hourly NOx Emissions = 0.0587 lb/hr

Hourly SOx Emissions = 0.0009 lb/hr

Hourly CO Emissions = 0.12 lb/hr

Hourly PM10 Emissions = 0.0116 lb/hr

A/N 500854:

Hourly Natural Gas Usage: $65,333 \text{ ft}^3/\text{day} \times 1 \text{ day}/24 \text{ hr} = 2,722 \text{ ft}^3/\text{hr}$

Hourly ROG Emissions:

$$7.0 \text{ lb}/10^6 \text{ ft}^3 \times 2,777 \text{ ft}^3/\text{hr} = 0.019 \text{ lb/hr}$$

Previous Hourly ROG Emissions:

$$0.0432 \text{ lb/hr}$$

Hourly NOx Emissions:

$$38.5 \text{ lb}/10^6 \text{ ft}^3 \times 2,777 \text{ ft}^3/\text{hr} = 0.107 \text{ lb/hr}$$

Previous Hourly NOx Emissions:

$$0.0237 \text{ lb/hr}$$

Hourly SOx Emissions:

$$0.6 \text{ lb}/10^6 \text{ ft}^3 \times 2,777 \text{ ft}^3/\text{hr} = 0.0016 \text{ lb/hr}$$

Previous Hourly SOx Emissions:

$$0.00369 \text{ lb/hr}$$

Hourly CO Emissions:

$$78.8 \text{ lb}/10^6 \text{ ft}^3 \times 2,777 \text{ ft}^3/\text{hr} = 0.219 \text{ lb/hr}$$

Previous Hourly CO Emissions:

$$0.485 \text{ lb/hr}$$

Hourly PM10 Emissions:

$$0.5 \text{ lb}/\text{day} \times 1 \text{ day}/24 \text{ hr} = 0.0208 \text{ lb/hr}$$

Previous Hourly PM10 Emissions:

$$0.0468 \text{ lb/hr}$$

Engineering and Compliance

Appl. no. Below
 Processed by Todd Iwata
 Checked by
 Date: 8/18/09

APPLICATION PROCESSING AND CALCULATION

A/N 500855:Hourly NO_x Emissions = 1.1 lb/hrHourly SO_x Emissions = 0.007 lb/hr

Hourly CO Emissions = 0.386 lb/hr

Hourly PM₁₀ Emissions = 0.084 lb/hr**RULE ANALYSIS**

RULE 212 (c)(1): This section requires a public notice for all new or modified permit units that emit air contaminants located within 1,000 feet from the outer boundary of a school. The facility is not located within 1,000 feet of the outer boundary of a school. The closest school located to the facility, Edgemont Elementary School, is approximately 0.49 miles away.

RULE 212 (c)(2): This section requires a public notice for all new or modified facilities that have on-site emission increases exceeding any of the daily maximums as specified by Rule 212(g). There will not be an emission increase with the proposed project.

RULE 212(c)(3): This section requires a public notice for all new or modified permit units with increases in emissions of toxic air contaminants listed in Table I of Rule 1401 resulting in a cancer risk equal or greater than one in a million. There will not be an increase of toxic air contaminants with this project.

RULE 212(g): This section requires a public notice for all new or modified sources that result in emission increases exceeding any of the daily maximums as specified by Rule 212(g). No emission increase with this project.

	Maximum Daily Emissions					
	ROG	NO _x	PM ₁₀	SO ₂	CO	Pb
Emission increase	0	0	0	0	0	0
MAX Limit (lb/day)	30	40	30	60	220	3
Compliance Status	Yes	Yes	Yes	Yes	Yes	Yes

RULES 401 & 402: AQMD database has no records of visible emissions or nuisance complaints against this facility. Compliance with these requirements is expected with the proper operation of the equipment.

RULES 1130 & 1171: Quebecor will continue to operate the presses in compliance with the requirements of these rules. There are no changes in the type of materials that are used in the equipment with these applications.

REGULATION XIII: The change of conditions by imposing a natural gas usage on printing press No's 1, 2 and 707 will not cause an emission increase from the equipment or facility. Therefore, the requirements of this regulation are not applicable. Further, BACT requirements are satisfied by the existing 8.0 vol% limitation on the fountain solution and the requirement that the VOC composite vapor pressure of the blanket and roller washes do not exceed 6 mmHg. The fountain solution has a 0.6 vol% concentration. Also, the VOC emissions from the dryers are vented to an RTO meeting the BACT requirements. In addition, the ovens are equipped with low-NOx burners meeting the 30 ppm NOx limit.

RULE 1401: There will not be an increase in toxic air contaminant emissions from the proposed project.

REGULATION XXX

This facility is not in the RECLAIM program. The proposed project is considered as a “minor permit revision” to the Title V permit for this facility.

Rule 3000(b)(12)(vi) defines a “minor permit revision” as any Title V permit revision that does not result in an increase in emissions of a pollutant subject to Regulation XIII – New Source Review (non-RECLAIM pollutants) or a hazardous air pollutant (HAP).

The proposed project is not expected to result in an increase in emissions of a pollutant subject to Regulation XIII – New Source Review (non-RECLAIM pollutants) or a hazardous air pollutant (HAP), and therefore is considered as a “minor permit revision” pursuant to Rule 3000(b)(12)(A)(vi).

This proposed project is the 3rd permit revision to the Title V renewal permit issued to this facility on August 01, 2007. The following table summarizes the permit revisions since the Title V renewal permit was issued :

Revision	HAP	VOC	NOx	PM₁₀	SOx	CO
1 st Permit Revision.	0	0	0	2	0	5
2 nd Permit Revision.	0	0	0	0	0	0
3 rd Permit Revision: change of conditions to three printing presses, modify thermal oxidizer	0	0	0	0	0	0
Cumulative Total	0	0	0	2	0	5
Maximum Daily	30	30	40	30	60	220

RECOMMENDATION

The proposed project is expected to comply with all applicable District Rules and Regulations. Since the proposed project is considered as a “minor permit revision”, it is exempt from the

public participation requirements under Rule 3006(b). A proposed permit incorporating this permit revision will be submitted to EPA for a 45-day review pursuant to Rule 3003(j). If EPA does not have any objections within the review period, a revised Title V permit will be issued to this facility.